

## Abstract

Multiuser methods of detecting CDMA-coded signals cannot be used in practice because of their high computational complexity. However, the RAKE receiver, which is simple in computing terms, offers greatly inferior detection results.

Through an iterative approximation of multiuser solutions, the method according to the present invention reduces computing complexity in comparison with traditional multiuser methods. A first estimate of coded data is improved by iteration either until a quality criterion is met or until no more computing time is available.

The field of application of this method includes, in particular, situations where CDMA-coded signals transmitted linearly are to be detected, in particular in the mobile wireless field when using CDMA methods.

(Figure 1)